Fire Plan Sketch Manager (FPSM Injector)



Major Steve Grass

C2PC Users

Conference

3-5 Feb 2004



Agenda

- Fire Plan Sketch /Tactical Data Network
- Functional Requirements
- Environment Model
- Formal Specification
- Design/Implementation
- Use Case Testing
- Prototype Demo (M-DACT and D-DACT)
- Future Work



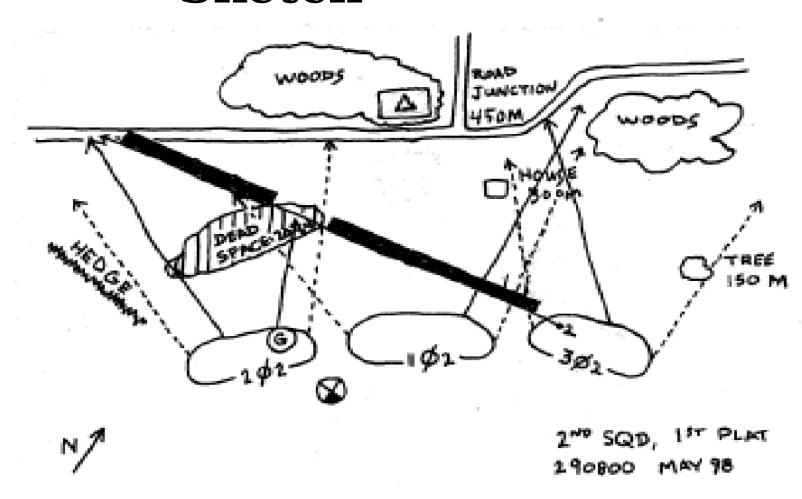
Fire Plan

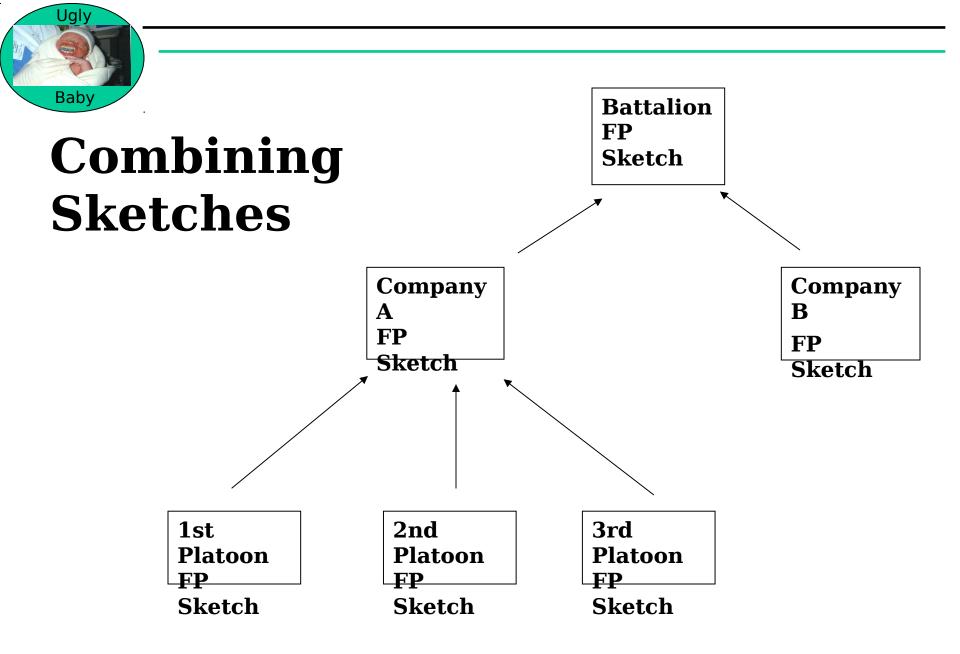
Sketch

A sketch that depicts the layout of units and (predominantly) direct fire weapons in the defense to ensure proper integration and control of those fires.



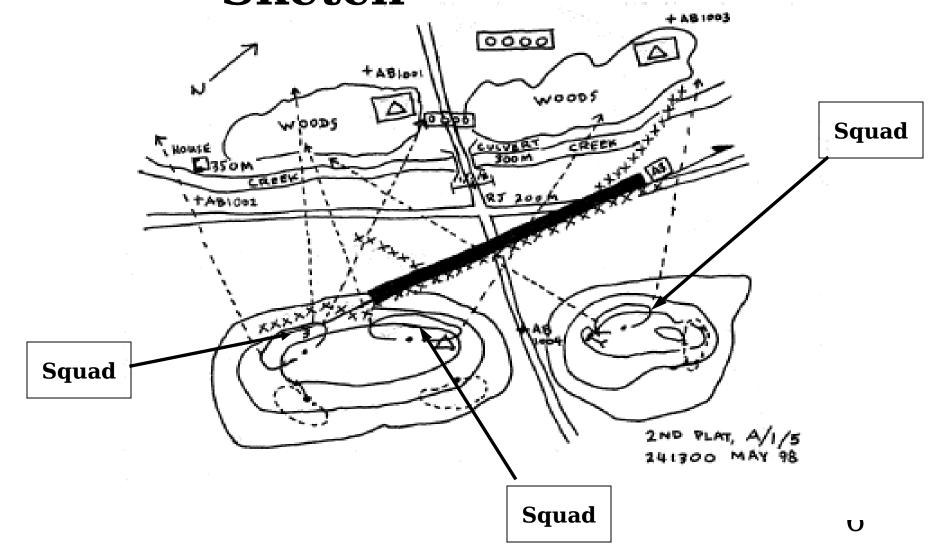
Squad Fire Plan Sketch







Platoon Fire Plan Sketch









What the FPSM would replace

 Fire plan sketches currently drawn by hand with paper and pencil and passed up chain of command by hand.

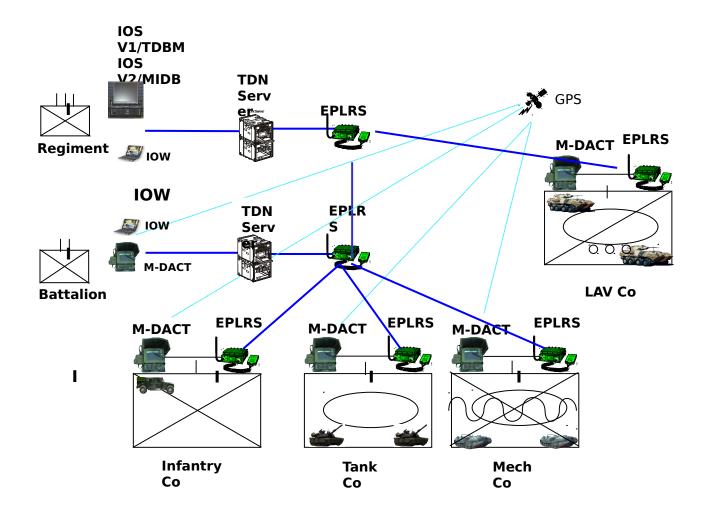
• Currently no easy way to *create*, combine, communicate sketches



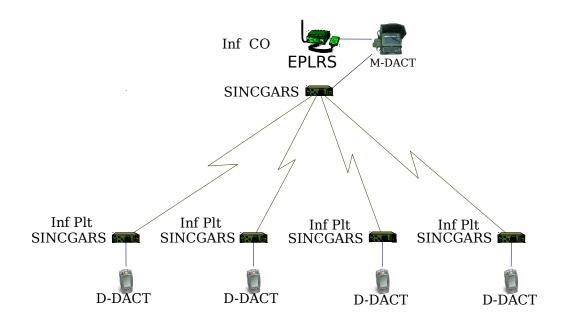
With....

- Digital fire plan sketches, *created*, *combined*, *edited and transmitted* electronically
- More importantly, <u>NOT created only by</u> someone sitting at a computer terminal....
- BUT, on the ground by a unit leader with a handheld (D-DACT) utilizing embedded GPS to record unit, weapon, and control measure position and orientation data.
- This functionality <u>cannot be provided</u> by the existing overlay injector...

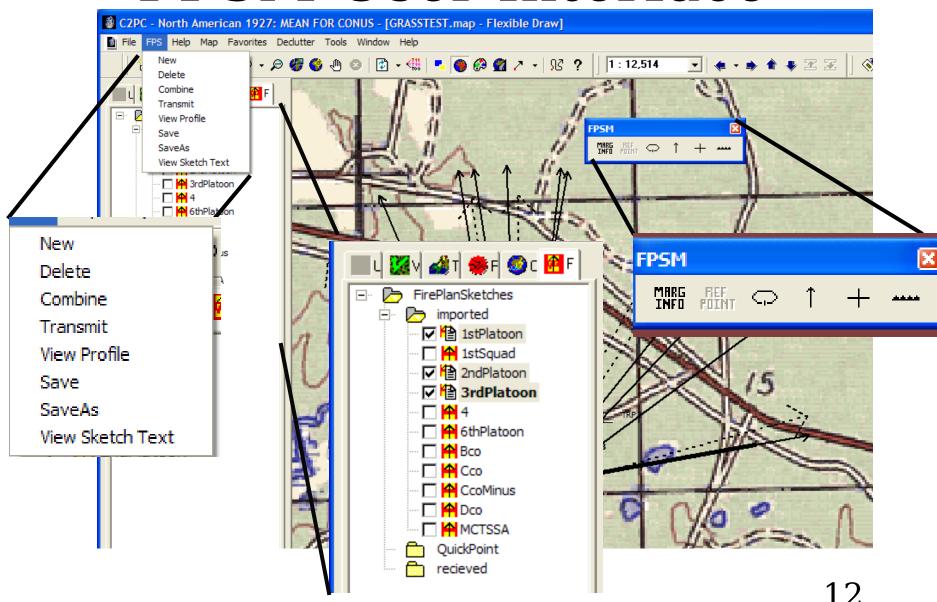
TDN/M-DACT



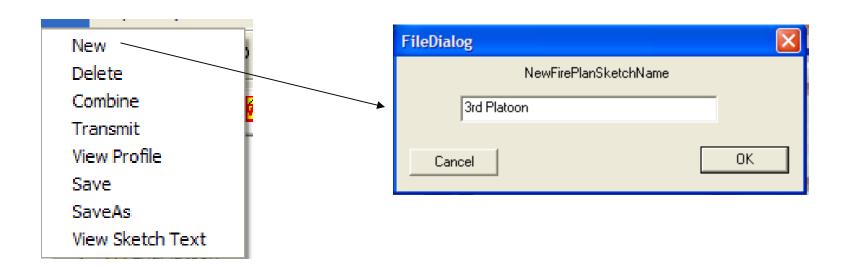
TDN/D-DACT



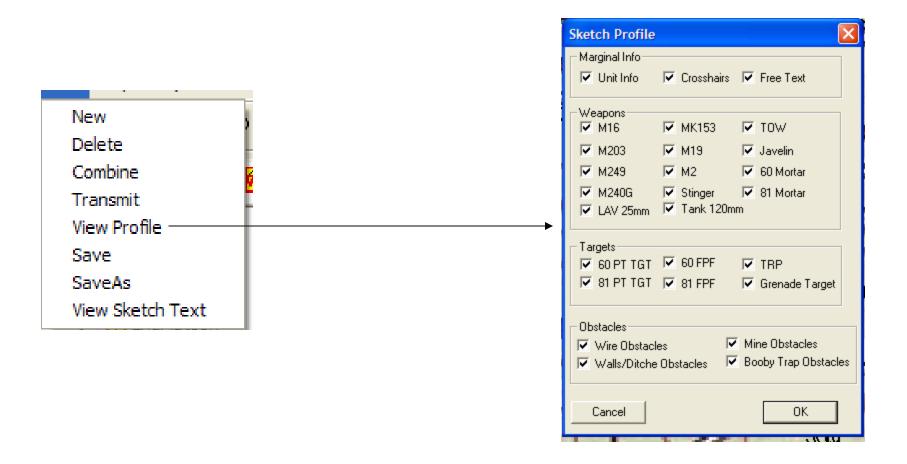
FPSM User Interface

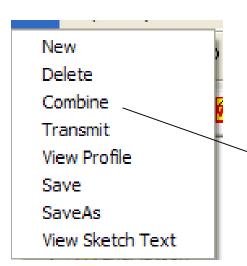


New Sketch

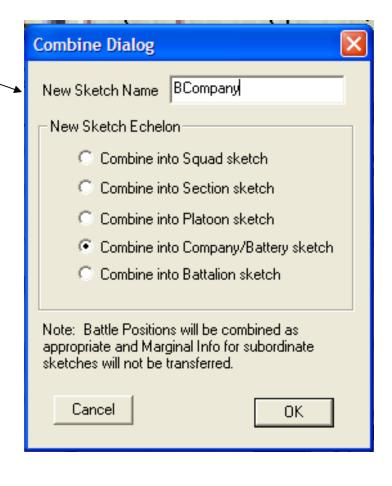


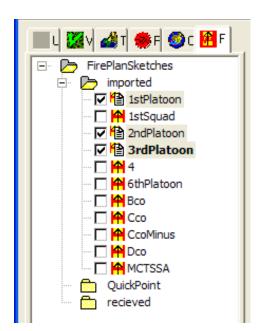
Sketch Profile



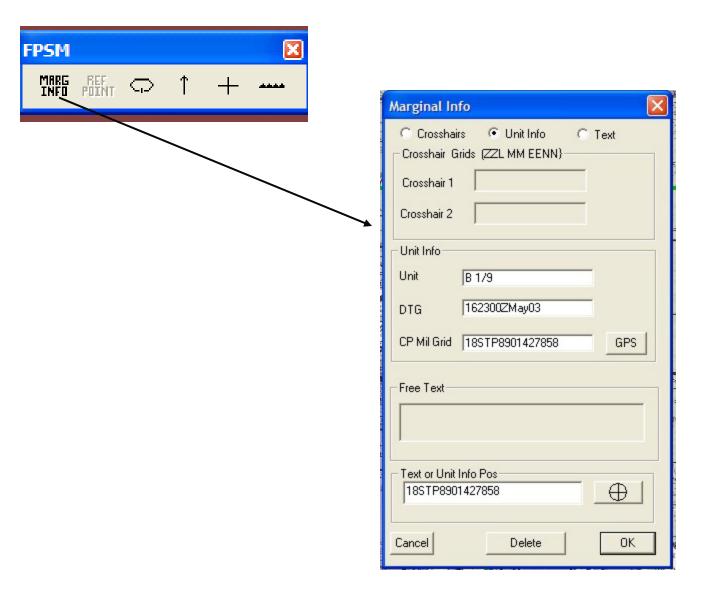


Combine

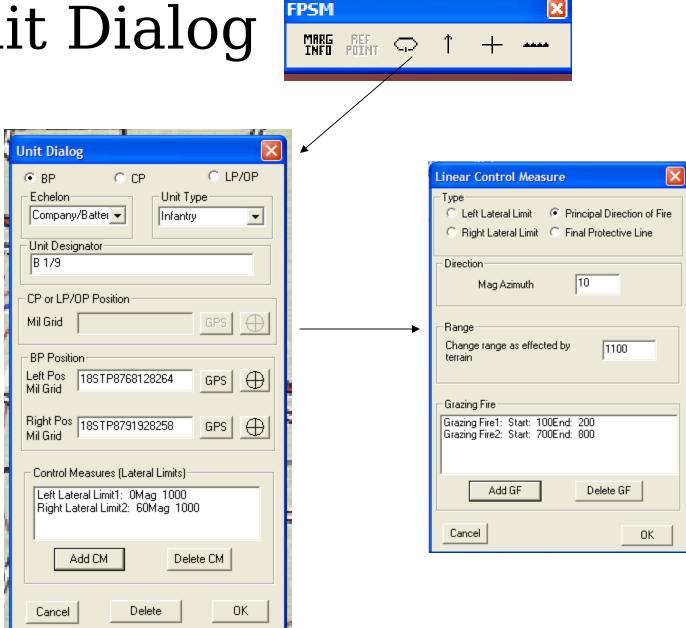




Marginal Info Dialog

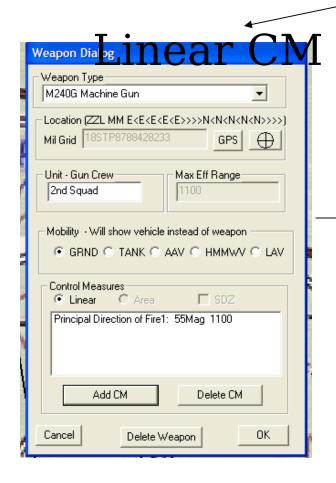


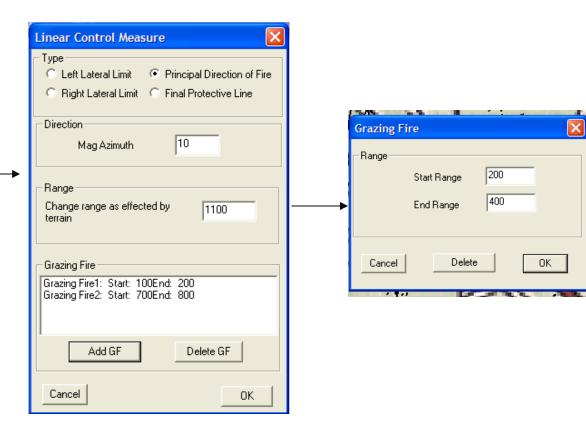
Unit Dialog



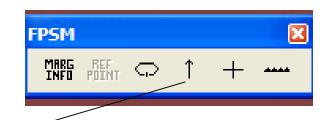
Weapon Dialog

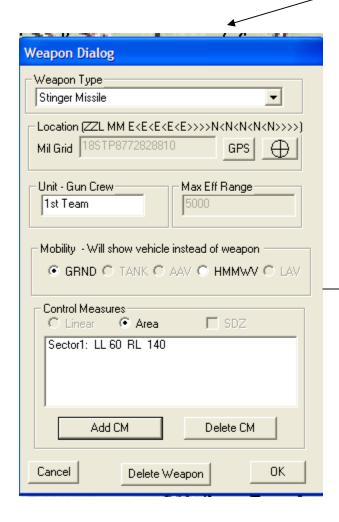


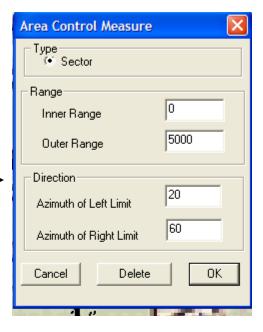




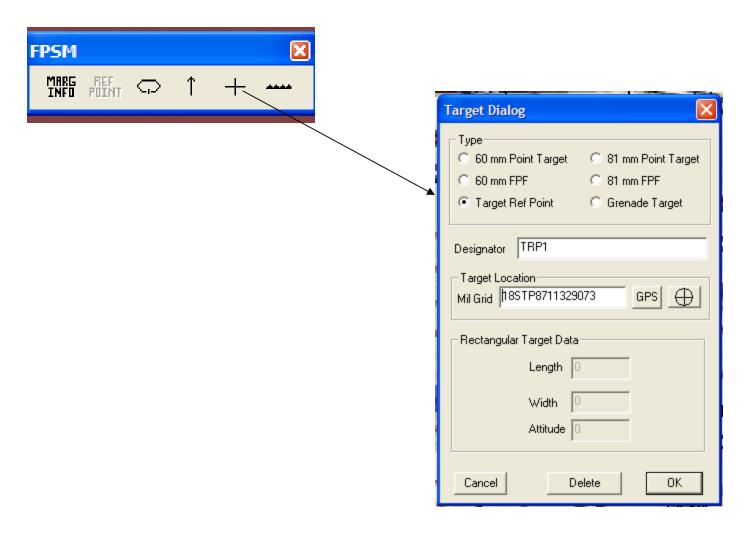
Weapon Dialog Area CM



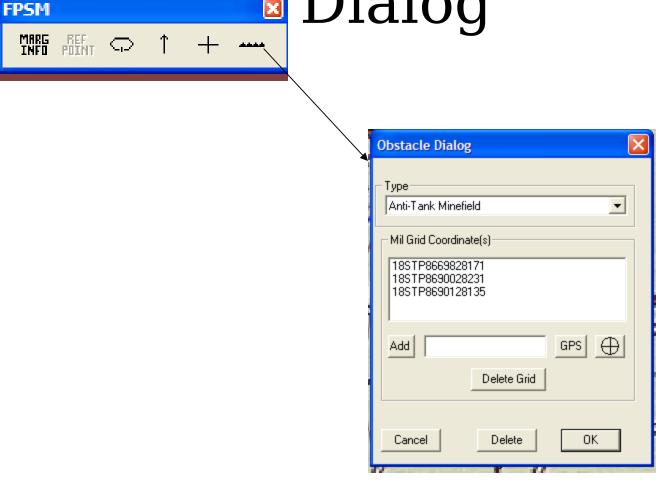




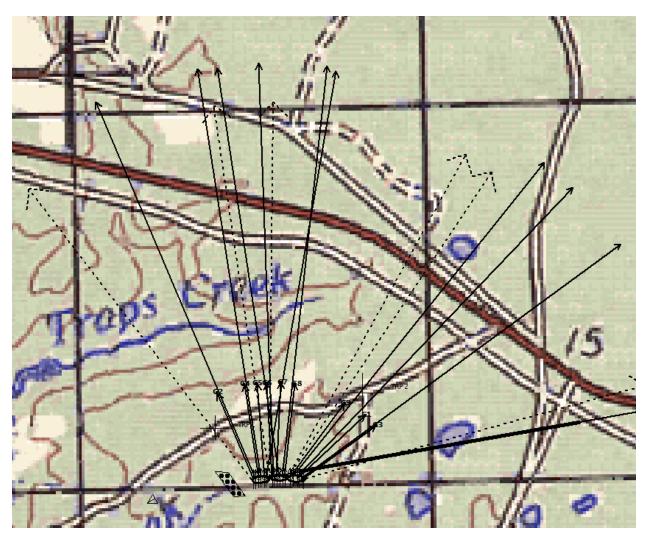
Target Dialog



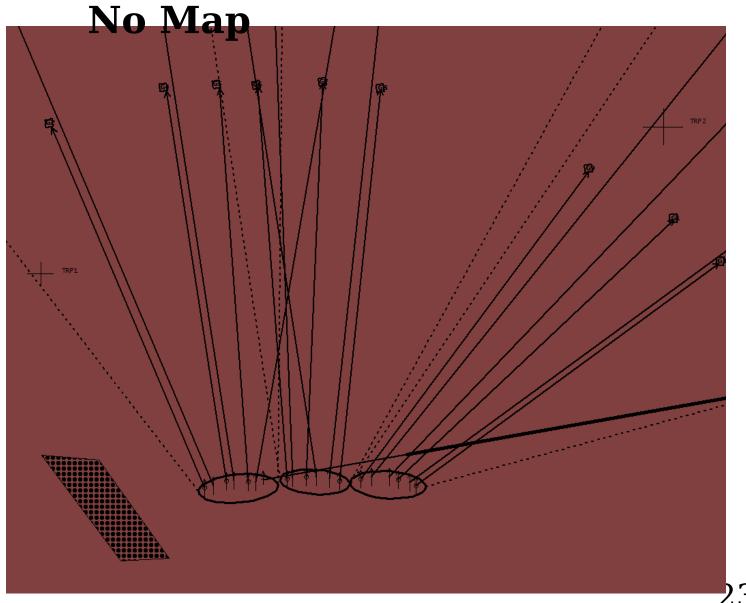
Obstacle Dialog



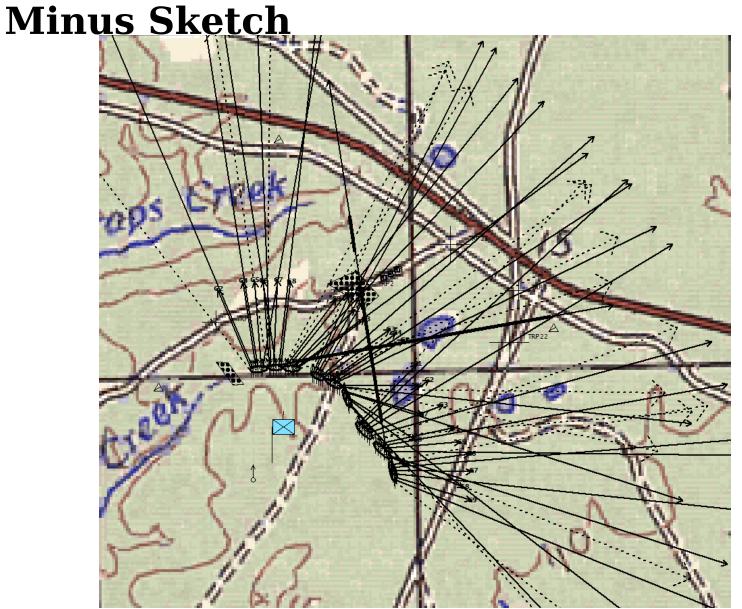
Platoon Sketch



Platoon Sketch - Detail,

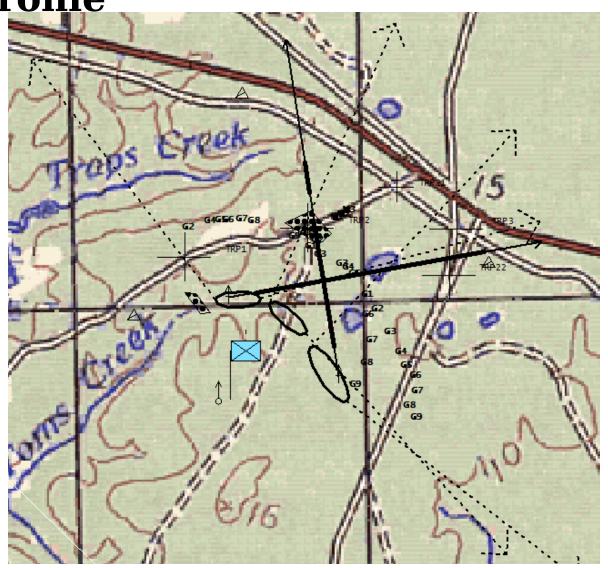


3 Platoon Sketches and Company



Combined Company Sketch w/ Company

View Profile



Bottom Line

• If the Tactical Data Network and the Dismounted DACT/C2CE become a reality, the FPSM will be a useful tool for the Marine Corps that will save time and effort speed the sharing of important defensive information on the battlefield.